

# **Main PCB Assembly (CD) w/ Cables, DWG 86626-6**

**Table 1 (Reference Figure 1)**

ITEM	PART NO.	QTY	DESCRIPTION
R1	70244	14	Resistor 10K RN55D
R2	70446	4	Resistor 47.5K RN55D
R3	87151	4	Resistor 1K RN55D
R4	86325	2	Resistor RSF1A 0.3 ohm (McGaw)
	86373	2	Resistor RSF1A 0.36 ohm (Abbott)
	86373	2	Resistor RSF1A 0.36 ohm (Baxter)
R5	70279	11	Resistor 100K RN55D
R6	87161	2	Resistor 475K RN55D
R7	70256	1	Resistor 787 ohm RN55D
R8	70478	1	Resistor 10 ohm RN55D
R9	86217	2	Resistor 39.2K RN55D
R10	-----	1	Resistor (selected at test)
R11	70446	-	Resistor 47.5K RN55D
R12	87151	-	Resistor 1K RN55D
R13	86325	-	Resistor RSF1A 0.3 ohm (McGaw)
	86373	-	Resistor RSF1A 0.36 ohm (Abbott)
	86373	-	Resistor RSF1A 0.36 ohm (Baxter, B. Braun)
R14	70248	1	Resistor 8.25K RN55D
R15	70250	1	Resistor 15K $\frac{1}{4}$ W 5%
R16	70244	-	Resistor 10K RN55D
R17	87161	-	Resistor 475K RN55D
R18	87244	1	Resistor 8.66K RN55D
R19	70244	-	Resistor 10K RN55D
R20	70244	-	Resistor 10K RN55D
R21	70244	-	Resistor 10K RN55D
R22	86200	1	Potentiometer 2K
R23	86185	1	Potentiometer 5K
R24	87195	2	Potentiometer 20K
R25	87179	1	Resistor 2ohm 3W
R26	70279	-	Resistor 100K RN55D
R27	87249	2	Resistor 7.5K RN55D
R28	70243	1	Resistor 3.9K $\frac{1}{4}$ W 5%
R29	86209	1	Resistor 2.43M RN55
R30	70279	-	Resistor 100K RN55D
R31	70244	-	Resistor 10K RN55D
R32	86269	2	Resistor 1M RN55D
R33	86265	1	Resistor 40.2ohm
R35	87152	1	Resistor 1.15K RN55D
R36	70244	-	Resistor 10K RN55D
R37	70244	-	Resistor 10K RN55D
R38	87261	1	Resistor 2.4M $\frac{1}{4}$ W 5%
R39	70283	-	Resistor 1M $\frac{1}{4}$ W 5%

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ITEM	PART NO.	QTY	DESCRIPTION
R40	86197	1	Resistor 5.11K RN55D
R41	70279	-	Resistor 100K RN55D
R42	70244	-	Resistor 10K RN55D
R43	70445	1	Resistor 243ohm RN55D
R44	87151	-	Resistor 1K RN55D
R45	87159	1	Resistor 30K RN55D
R46	70279	-	Resistor 100K RN55D
R47	86646	1	Resistor 4.75K RN55D
R48	70446	-	Resistor 47.5K RN55D
R49	70244	-	Resistor 10K RN55D
R50	70279	-	Resistor 100K RN55D
R51	70244	-	Resistor 10K RN55D
R52	70244	-	Resistor 10K RN55D
R53	87162	1	Resistor 10M 1/4W 5%
R54	70270	1	Resistor 68.1K RN55D
R55	87155	1	Resistor 9.53K RN55D
R56	86716	1	Resistor 8.87K RN55D
R57	70244	-	Resistor 10K RN55D
R58	70446	-	Resistor 47.5K RN55D
R59	87272	1	Resistor 49.9K RN55D
R60	70244	-	Resistor 10K RN55D
R61	87160	2	Resistor 221K RN55D
R62	87160	-	Resistor 221K RN55D
R63	87249	-	Resistor 7.5K RN55D
R64	86203	1	Resistor 20K RN55D
R65	70279	-	Resistor 100K RN55D
R66	87195	-	Potentiometer 20K
R67	70279	-	Resistor 100K RN55D
R68	70285	1	Resistor 27.4K RN55D
R69	86643	1	Resistor 3.32K RN55D
R70	87151	-	Resistor 1K RN55D
R71	70279	-	Resistor 100K RN55D
R72	70279	-	Resistor 100K RN55D
R73	70279	-	Resistor 100K RN55D
R74	86269	-	Resistor 1M RN55D
RN1	86184	1	Network Resistor 100K
RN2	87175	1	Network Resistor 33K
RN3	86182	1	Network Resistor 47.5K
C1	87210	11	Capacitor .001uf Dipped Ceramic
C2	86315	4	Capacitor 820pf Molded Ceramic
C3	86317	1	Capacitor 10uf Solid Tantalum 35V
C4	86266	1	Capacitor 47uf Solid Tantalum 25V
C5	86315	-	Capacitor 820pm Molded Ceramic

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**Table 1 (Reference Figure 1)**

ITEM	PART NO.	QTY	DESCRIPTION
C6	87206	10	Capacitor .1uf Dipped Ceramic
C7	70165	6	Capacitor 1uf Solid Tantalum 35V
C8	70168	4	Capacitor 10uf Solid Tantalum 20V
C9	87218	5	Capacitor .01uf Dipped Ceramic
C10	87218	-	Capacitor .01uf Dipped Ceramic
C11	87213	2	Capacitor 47uf Alum. Electrolytic
C12	87208	2	Capacitor .047uf Dipped Ceramic
C13	70165	-	Capacitor 1uf Solid Tantalum 35V
C14	70168	-	Capacitor 10uf Solid Tantalum 20V
C15	87210	-	Capacitor .001uf Dipped Ceramic
C16	87206	-	Capacitor .1uf Dipped Ceramic
C17	87206	-	Capacitor .1uf Dipped Ceramic
C18	86315	-	Capacitor 820pf Molded Ceramic
C19	87206	-	Capacitor .1uf Dipped Ceramic
C20	87208	-	Capacitor .047uf Dipped Ceramic
C21	87213	-	Capacitor 47uf Alum. Electrolytic
C22	86315	-	Capacitor 820pf Molded Ceramic
C23	87206	-	Capacitor .1uf Dipped Ceramic
C24	87210	-	Capacitor .001uf Dipped Ceramic
C25	87206	-	Capacitor .1uf Dipped Ceramic
C26	87206	-	Capacitor .1uf Dipped Ceramic
C27	70165	-	Capacitor 1uf Solid Tantalum 35V
C28	70168	-	Capacitor 10uf Solid Tantalum 20V
C29	87206	-	Capacitor .1uf Dipped Ceramic
C30	87206	-	Capacitor .1uf Dipped Ceramic
C31	87218	-	Capacitor .01uf Dipped Ceramic
C32	87210	-	Capacitor .001uf Dipped Ceramic
C33	87210	-	Capacitor .001uf Dipped Ceramic
C34	87210	-	Capacitor .001uf Dipped Ceramic
C35	87210	-	Capacitor .001uf Dipped Ceramic
C36	70165	-	Capacitor 1uf Solid Tantalum 35V
C37	70165	-	Capacitor 1uf Solid Tantalum 35V
C38	70297	1	Capacitor 4.7uf Solid Tantalum 16V
C39	87220	1	Capacitor .22uf Dipped Ceramic
C40	87218	-	Capacitor .01uf Dipped Ceramic
C41	87218	-	Capacitor .01uf Dipped Ceramic
C42	87210	-	Capacitor .001uf Dipped Ceramic
C43	87210	-	Capacitor .001uf Dipped Ceramic
C44	87209	2	Capacitor 22pf Dipped Ceramic
C45	87209	-	Capacitor 22pf Dipped Ceramic
C46	70165	-	Capacitor 1uf Solid Tantalum 35V
C47	87273	1	Capacitor 820pf Dipped Ceramic
C48	86219	1	Capacitor 68uf Solid Tantalum 25V

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**Table 1 (Reference Figure 1)**

ITEM	PART NO.	QTY	DESCRIPTION
C49	87206	-	Capacitor .1uf Dipped Ceramic
C50	87205	1	Capacitor 150pf Dipped Ceramic
C51	70168	-	Capacitor 10uf Solid Tantalum 20V
C52	87207	1	Capacitor 82pf Dipped Ceramic 200V
C53	87208	1 opt	Capacitor .047uf Dipped Ceramic (Flow Clip)
D1	86267	4	Diode BYW 100/200/BYD74D
D2	86267	-	Diode BYW 100/200/BYD74D
D3	86267	-	Diode BYW 100/200/BYD74D
D4	86267	-	Diode BYW 100/200/BYD74D
D5	70163	10	Diode 1N4148
D6	70161	4	Diode 1N4002
D8	70163	-	Diode 1N4148
D10	70163	-	Diode 1N4148
D11	87164	2	Diode 1N5820 or 1N5822
D12	70161	-	Diode 1N4002
D13	87164	-	Diode 1N5820 or 1N5822
D14	70163	-	Diode 1N4148
D15	70163	-	Diode 1N4148
D16	70163	-	Diode 1N4148
D17	70163	-	Diode 1N4148
D18	70163	-	Diode 1N4148
D19	70161	-	Diode 1N4002
D20	86707	1	Diode 1N5817
D21	70163	-	Diode 1N4148
D22	70163	-	Diode 1N4148
D23	70163	-	Diode 1N4148
U1	70319	3	IC CD4013BEX
U2	87189	3	IC CD40106BEX
U3	86295	3	IC CD4081BEX
U4	70325	2	IC CD4071BEX
U5	70319	-	IC CD4013BEX
U6	70325	-	IC CD4071BEX
U7	86296	2	IC PBL3770 / PBL3770A
U8	70139	-	IC CD4013BEX
U9	87192	1	IC LM386N
U10	86297	1	Voltage Regulator uA78M08UC
U11	70475	1	IC CD4020BEX
U12	86296	-	IC PBL3770 / PBL3770A
U13	86295	-	IC CD4081BEX
U14	87189	-	IC CD40106BEX
U15	86299	1	IC CD4066BEX
U16	87181	1	IC CA3130A
U17	86295	-	OC CD4081BEX
U18	86193	1	IC LM723CN

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**Table 1 (Reference Figure 1)**

ITEM	PART NO.	QTY	DESCRIPTION
U19	87270	1	IC L1A1728S – 68 Pin
U20	70328	1	IC CD4070BEX
U21	86677	1	IC CD74H14EX
U22	87189	-	IC CD40106BEX
U23	81530	1	IC M48T02-150PC1/M48T02-200PC1 (battery backed RAM)
U24	86288	1	IC 27C256-25
U25	87185	1	IC CDP1802ACE
U26	87191	1	LM339N
Q1	87202	5	Transistor VN10KM
Q3	87202	-	Transistor VN10KM
Q4	87201	2	Transistor MPSA13
Q5	87202	-	Transistor VN10KM
Q6	87201	-	Transistor MPSA13
Q7	87200	1	Transistor 2SB824
Q8	86201	1	Transistor D1062
Q9	86719	1	Transistor 2N3904
Q10	87202	-	Transistor VN10KM
Q11	87202	-	Transistor VN10KM
Q12	86644	1	Transistor FET – P Channel VP0808L
J1	87235	2	Header MTA 4 Pin
J2	87234	1	Header MTA 6 Pin
J3	86234	1	Header MTA 6 Pin
J4	87235	-	Header MTA 4Pin
J5	Ref.	-	28 Pin Cable Assembly Location
J6	87236	1	Header Right Angle 6 pin
L1	87156	2	Inductor 100 uH
L2	87156	2	Inductor 100 uH
VR1	87197	2	Voltage Regulator LM340AT5.0
VR2	87197	2	Voltage Regulator LM340AT5.0
TZ1	87166	1	Transzorb 1.5 KE22
X1	87219	1	Crystal 2.4576Mhz HC18V w/Ground Pin
F1	70463	1	Pico Fuse 4 Amp
SW1	86721	1	Switch 6 Pole
TH1	87204	1	Thermistor 10K 5% Neg.
ICS1	86202	1	IC Socket 68 Pin
ICS2	87221	1	IC Socket 28 Pin
ICS3	87222	1	IC Socket 40 Pin
PCB2	86698	1	Memory Expansion PCB w/EPROM
PCB1	86625	1	PC Board Blank
7	86303	1	Heat Sink Sub-Assembly (i.e. VR1, VR2, Q8, Q10)
8	86015	1	Assembly Voltage Regulator Cable
9	87014	1	Assembly Battery Cable
10	86172	1	Holding Clip – LSI Socket

Memory Expansion PCB Assy. w/EPROM  
DWG 86698

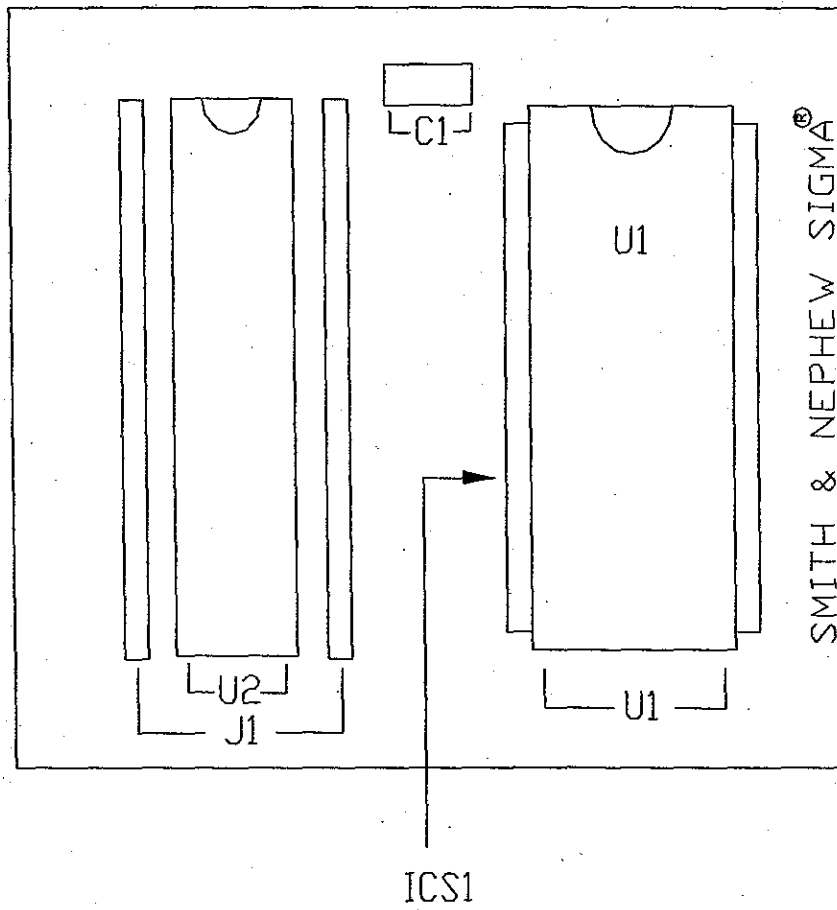
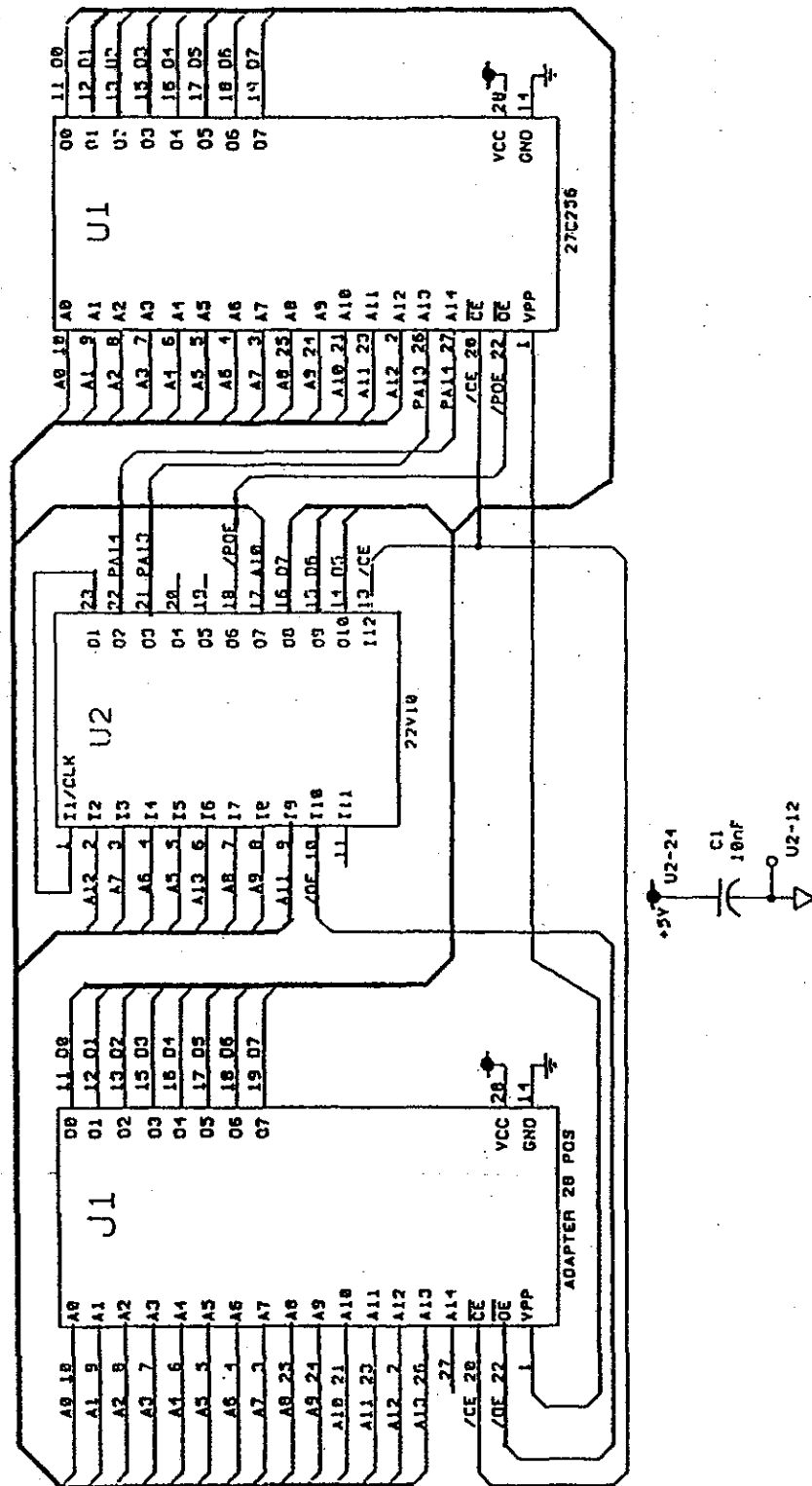


Figure 2

# Memory Expansion PCB Schematic DWG 86691



## Memory Expansion PCB Assy. w/EPROM, DWG 86698

**Table 2 (Reference Figure 2)**

ITEM	PART NO.	QTY	DESCRIPTION
1	86692	1	PC Board, Blank
J1	86696	1	Adapter Plug, 28 pin
ICS1	87221	1	I.C. Socket, 28 pin
C1	87218	1	Capacitor .01uf Dipped Ceramic
U1	86288	1	Programmed EPROM
U2	86695	1	PAL 22V10 (Programmed)



Display PCB Assembly  
DWG 86623G-1 sht.1

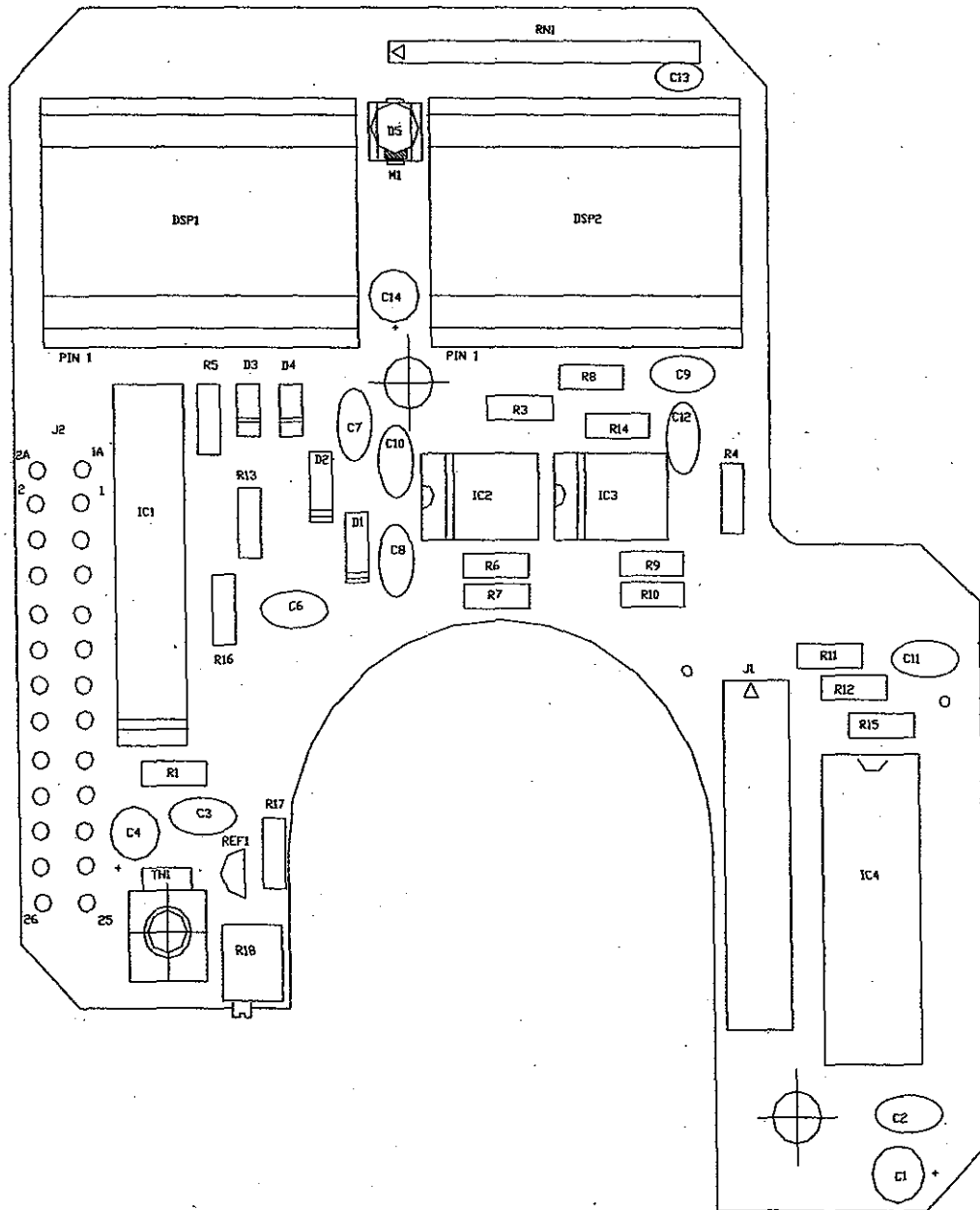


Figure 3

